

CLAIMS:

1. A holographic recording and reproducing method for recording data in a holographic recording medium comprising at least a recording layer in which data are to be recorded as phase information of light by projecting a signal beam and a reference beam thereonto and a servo layer disposed on the opposite side of the recording layer as viewed in the direction of signal beam incidence on the holographic recording medium and having regions in which optical modulated patterns are formed by projecting the signal beam and the reference beam onto the holographic recording medium and reproducing holographic data from the holographic recording medium by projecting the reference beam onto the holographic recording medium, the holographic recording and reproducing method comprising steps of setting an optical path of the signal beam so that the signal beam is projected onto other regions of the servo layer than the regions in which the optical modulated patterns are formed, setting an optical path of a servo beam different from that of the signal beam so that the servo beam is projected onto one of the regions of the servo layer in which the optical modulated patterns are formed after passing through an objective lens through which the signal beam passes and projecting the servo beam onto the servo layer along the thus set optical path of the servo beam.
2. A holographic recording and reproducing method in accordance with Claim 1, wherein the optical modulated pattern is formed by servo projections formed on the servo layer.
3. A holographic recording and reproducing apparatus for recording

data in a holographic recording medium comprising at least a recording layer in which data are to be recorded as phase information of light by projecting a signal beam and a reference beam thereonto and a servo layer disposed on the opposite side of the recording layer as viewed in the direction of signal beam incidence on the holographic recording medium and having regions in which optical modulated patterns are formed by projecting the signal beam and the reference beam onto the holographic recording medium and reproducing holographic data from the holographic recording medium by projecting the reference beam onto the holographic recording medium, the holographic recording and reproducing apparatus comprising an objective lens for converging the signal beam, signal beam projecting means for setting an optical path of the signal beam so that the signal beam is projected onto other regions of the servo layer than the regions in which the optical modulated patterns are formed, and servo beam projecting means for setting an optical path of a servo beam different from that of the signal beam so that the servo beam is projected onto one of the regions of the servo layer in which the optical modulated patterns are formed after passing through an objective lens through which the signal beam passes and projecting the servo beam onto the servo layer along the thus set optical path of the servo beam.

4. A holographic recording and reproducing apparatus in accordance with Claim 3, wherein the servo beam projecting means comprises beam deflecting means for deflecting the servo beam in a predetermined direction so that the servo beam impinges on the objective lens with an incidence angle different from that of the signal beam.

5. A holographic recording and reproducing apparatus in accordance with Claim 4, wherein the beam deflecting means is constituted as a diffraction grating disposed on the incidence side of the servo beam with respect to the objective lens.

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